PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

KEVIN B. LAURENCE ONE UTAH CENTER 201 SO. MAIN STREET, SUITE 1100 SALT LAKE CITY, UT 84111

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATAENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing

22 JUL 2005

(day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION 50821-14 PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/10638 07 April 2003 07 April 2004 Applicant NPS PHARMACEUTICALS, INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the Internationar Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/ US

Mail Stop PCT, Attn: IPEA/US

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Telephone No. 571.272,1600

Form PCT/IPEA/416 (January 2004)

STOEL RIVES S.L.C. JUL 2 8 2005

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER AC	TION	See Form PCT/IPEA/416			
50821-14 PCT	International filing date (·	Dispite data (daylor on this ray)			
International application No.	, i	, ,	Priority date (day/month/year)			
PCT/US04/10638	07 April 2004 (07.04.200		07 April 2003 (07.04.2003)			
International Patent Classification (IPC) or national classification and IPC						
IPC(7): C07D 239/36, 239/80; A61k	31/505, 31/517 and US Cl.: 54	4/287, 289, 319; 514/26	66.3, 266.31, 269			
Applicant						
NPS PHARMACEUTICALS, INC.						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This REPORT consist	of a total of 3 sheets, incl	luding this cover sheet	t.			
3. This report is also acco	mpanied by ANNEXES, co	mprising:				
a. (sent to the app	licant and to the Internation	al Bureau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains in	dications relating to the follo	owing items:				
Box No. I	Basis of the report					
Box No. II	Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and applicability			velty, inventive step and industrial			
Box No. IV	Lack of unity of invention					
Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement					
Box No. VI	Certain documents cited					
Box No. VII	Certain defects in the inter	national application				
Box No. VIII	Certain observations on th	e international applica	ntion			
Date of submission of the deman	l ·	Date of completion	of this report			
07 September 2004 (07.09.2004)		11 Jaly 2005 (11.07.2	2005)			
Name and mailing address of the IPEA/ US		Anthorized officet				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Arthe	a Journe for			
P.O. Box 1450	60	и реерак као				
Alexandria, Virginia 22313-14 Facsimile No. (703) 305-3230	JU	Telephone No. 571-2	272-1600			
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Form PCT/IPEA/409 (cover sheet)(January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

nter	national	application	No.			

PCT/US04/10638

Box No.	I Basis of the report					
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 						
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
٠	international search (under Rules 12.3 and 23.1(b))					
1	publication of the international application (under Rule 12.4)					
•	international preliminary examination (under Rules 55.2 and/or 55.3)					
to the	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
\boxtimes	the international application as originally filed/furnished					
\boxtimes	the description:					
	pages 1-45 as originally filed/furnished					
	pages* NONE received by this Authority on					
	pages* NONE received by this Authority on					
\bowtie	the claims:					
	pages 46-54 as originally filed/furnished					
	pages* NONE as amended (together with any statement) under Article 19					
	pages* NONE received by this Authority on					
	pages* NONE received by this Authority on					
\boxtimes	the drawings:					
	pages 1 as originally filed/furnished					
	pages* NONE received by this Authority on					
	pages* NONE received by this Authority on					
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	The amendments have resulted in the cancellation of:					
	the description, pages					
	the claims, Nos					
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to the sequence listing (specify):					
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
	the description, pages					
	the claims, Nos.					
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to the sequence listing (specify):					
* If item	4 applies, some or all of those sheets may be marked "superseded."					

Form PCT/IPEA/409 (Box No. I) (January 2004)

International application No. PCT/US04/10638

INTERNATIONAL PREI IMINARY REPORT ON PATENTABILITY

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1	applications, or an one and or provide a provi						
1. Statement							
	Novelty (N)	Claims 11-20	YES				
		Claims 1-10	NO				
	Inventive Step (IS)	Claims 11-20	YES				
		Claims 1-10	NO				
	Industrial Applicability (IA)	Claims 1-20	YES				
	industrial Applicationity (1A)	Claims NONE	NO				

2. Citations and Explanations (Rule 70.7)

Box No. V

Claims 1-10 lack novelty under PCT Article 33(2) as being anticipated by EP 579424. The instant claims read on reference disclosed compounds of formula I, see the compounds disclosed in Table 1, compound no. 15, 20, etc. and Table 1A, compound 221, 224.

Claims 1-10 lack an inventive step under PCT Article 33(3) as being obvious over EP 579424. The reference teaches a generic group of 2-arylpyrimidine-4-one compounds, which embraces applicant's instantly claimed compounds. See formula (1) in page 3, and the preferred subgenera in various Tables. The compounds are taught to be useful as herbicides, see the abstract. The instant claims differ from the reference by reciting specific species or a more limited subgenus than the reference. It would have been obvious to one having ordinary skill in the art at the time of the invention to select any of the species of the genus taught by the reference, including those instantly claimed, because the skilled chemist would have the reasonable expectation that any of the species of the genus would have similar properties and, thus, the same use as taught for the genus as a whole i.e., as therapeutic agents. One of ordinary skill in the art would have been motivated to select the claimed compounds from the genus in the reference since such compounds would have been suggested by the reference as a whole.

Claims 11-20 meet the criteria of novelty and inventive step set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed compounds. See the reference EP 579424 which teaches 2-arylpyrimidin-4-one compounds, however, the reference does not teach or fairly suggest the compounds of the instant claims.

Claims 1-20 meet the criteria set out in PCT Article 33(4) as the compounds are disclosed to have pharmaceutical activity, and thus meet the industrial applicability because the subject matter claimed can be made or used in industry.